December 21, 1973

State of Washington Department of Ecology



Memo to: John Glynn, Ron Pine, Ron Devitt and Files

From: Darrel Anderson

Subject: Lynden STP Efficiency Survey.

On November 27, 1973, I conducted an efficiency survey at the City of Lynden STP, Whatcom County. Visual appearance of the plant and grounds is very good, security of the plant was also sufficient.

The operator of the plant indicated that there is an infiltration problem during wet periods of the year. Also during the summer and fall, two food processing plants discharge into the system which creates some problems for the plant.

Laboratory results indicate a reduction of 69% for five day BOD and 65% for COD. Total solids reduction is 51%. Fecal coliform was no greater than 1,600/100 ml, and total coliform as high as $40 \times 10^4/100$ ml.

DA:jmh

STP SURVEY REPORT FORM .

				CIENCY STU	10 TO AC 1				
City_ Lynden	Pl	ant Typ	Secoi						wn
					ved		Capa	city	
Receiving Water No	ooksack	River	2000		Engineer	Unk	nown_		
Date_11-27-73	Sur	vey Per	fod 090	0-1630 hi	°S. Surv	ey Pers	onnel_0.	Anderso	n
Comp. Sampling Freq	uency 1	/2 hou	r	Weather Co	nditions	Rai	n, cold		
				(last 48 h	ours)				
Sampling Alequot	1000 m1/	one h	alf ho	ur				75.	
Total Flow Approx				How	Measured				
								of Min	
			Post		15			of Min	
		,	Post	C1 ₂	15	_Ø/day		of Min	
Pre Cl ₂		,	Post	C1 ₂	15	_Ø/day		of Min	
Pre Cl ₂ Determinations	0/da	Ini Min.	Post FI (luent	C1 ₂	15 ·	_\$/day	Effluent		
Determinations Temp. *C	- Ø/da	Ini Min.	Post FI fluent Mean	Cl ₂	Nax.	_∮/day	Effluent Nean	Median	
Pre Cl ₂ Determinations Temp. *C	- Ø/da Max. 12,6	Ini Min.	Post FI fluent Mean	Cl ₂	Max.	#/day	ffluent Nean	Median	
	Max.	Ini Min.	Post FI fluent Mean	Cl ₂	Max. 11.4 7.0	#/day	ffluent Nean	Median	

LABORATORY RESULTS ON COMPOSITE IN PPM

	Influent	Effluent	I Reduction
Laboratory Number	73-4351	4352	
5-Day BOD	200	59	69%
COD	320	110	65%
T.S.	373	182	51%
T.W.V.S.	117	63	46%
T.S.S.	213	56	84%
N.V.S.S.	36	3	92%
pli	7.7	7.3	4
Conductivity	540	550	
Turbidity	60	30	

BACTERIOLOGICAL RESULTS

Na2S2O3 added to sample Before sampling after _____min.

1.45	SAMPLING TIME TOCOLONIES/100 MLS ME		was tuel	BMING	I Residual 15 sec
LAB #	SAMPLING TIME	Total NIES/100	MLS Fedal	ppm	(after secs.)
73-4353	0915	>1.6 x 10 ⁵	>16,000	.05	.15
5.4	1000	14,500	< 200	.05	.1
55	1130	>1.6 x 10 ⁵	>16,000	.05	. 3
56	1300	>40 x 10 ⁴	>16,000	.05	. 5
57	1400	>4 x 10 ⁴	>16,000	.3	.75
58	1530	>1.6 x 10 ⁵	>16,000	. 5	. 3

Operator's Name Bob Rough Phone # _____
Comments:

	Influent	Effluent	
NO3-N		17.5	
NO2-N		.010	5
NH3-N		13.0	
T.Kjeldahl-N		13.0	
0-P0,-P		3.45	
Total Phos-P		3.45 12.6	
Color	200	130	2
Chlorides	21	21	
		With a	W

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

ORIGINAL TO:
.D. AMMAN.
COPIES TO:

DATA SUMMARY

Source Lynden STP

		LA3 FILES	
Collected	ву <u>Д.А.</u>		
			_

Date Collected 11-27-73	<u> </u>	_				Go	al. Pr	o./Obi.		
Log Number: 73-		<u>5^≥</u>	53	5 7	53					STORET
Station;	INF	ŀ	0915			1	l	[
p1 <u>;</u>	7.7									00403
turbidicy (JTV)	60.	30.	<u> </u>							00070
Conductivity (umans/cm)@250	540.	550.								00095
005	320.	110.		<u>-</u> -			<u> </u>			00340
BOD (5 day)	200.	59.								00310
Total Californ (Ccl./100ml)	-	-	$\Sigma \omega \delta$	14,500)1.6s16	2400)45 15 ⁴)], 1 14		31504
Fecal Coliform (Col./190ml)	-	-	!. !	. 1		I. I		16,000		31616
NC3-N (Filterec)		17.5				_				00620
NO2-N (Filtered)	<u>-</u>	alo.							<u> </u>	00615
NH3-N (Unfiltered)	-	13.			·	i 				00610
T. Kjeldahl-N (Unfilteres)		13.				· 				00525
<u>O-</u> PO4-P (Filtered)	-	3.45								00671
Total PhosP (Cofiltered)	-	12.6					!			00665
Total Solids	373	185						<u>.</u>		00500
Total Non Vol. Solids	117	63								
Total Suspended Solida	213	56								00530
Total Sus. Non Vol. Solids	36	3								
<u>Cotor</u> <u>Chroaides</u>	200	130				_				_
_ Ch LORIGES	21	2(_								
*										
1					i		,			
Note: All results are in P	DA : 1				16153					

Note: All results are in PPM unless otherwise specified. ND is "None Detected" Convert those marked with a * to PPB (PPM X 10) prior to entry into STORET

Summary By take P. Roll

Date 12-14-73

15: hubile

SEWAGE TREATMENT PLANT OPERATION AND MAINTENANCE PRACTICES QUESTIONIAIRE

POUCH APPROVED NO. 45-PISST

CHECKONE				Charle M.
IST AUDIT HE-AUDIT	11-27	-73	PLANT DESCRIPTION CODE () or Office Duly).	
	A. GEHLRAL	LINFORMATION		
PROJECT (State, Number)		SCOPE OF PHOJECT (new plant, additions, str.j	
PLANT LOCITION (City, (voorly)		106MTH 16 4 110M OF		
LYNDBO, WILL		Mounteer	Trespond Cert. F	
	3.00	PIN ATION		
A. PRACTION OF AREA FORULATION		850 APPRIX	SC. SLUVED BY PERSOT (domestic)	
	4. TYPE OF CO	LLCSTISN SYSTEM		
A. DOMBINED SEPANATE	DOTH	## Elliwater February	CONTRIBUTED BY SURFACE ON GRO	O(10)
TEAN CONTUNITY BEGAN SERAGE		6. YEAR PRESENT SYST	EM PLACED IN OPERATION	
193 B	GA. SEKEN		LANT SC. ANCILLARY W	2014
A. NIEC OF PLANT BITE (HCCCE)		TO APPROXIMATE AP	EA LEFT FOR EXPANSION (MITES) .	
/ Acre				
LIN THE SPACE PROVIDED VELOW FURT	HISH & THUPLIPIED FLOR	CHASHAMON A WHITTE	HOTECHIRTION OF THE PLANT WHITE	S.TH.
A. IN THE STACE PROVICED DELOW FURN STANDARD TO THE WEST OF THE WEST OF	CELLS INDICATE IN	HETHER FLOR TO AND F	ADD PLANT IS BY FUNPING OR GRAVE	44+
Λ.		Final Clarifier	Trialling S	212
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EFF	tuenothune	- (D)-t		+
	and the same	4	7 000 1	1
rile				
nuce.	1	Chlomne,	1 1/2-1/1 1	
		Induced	1/	
		he at		
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Drying.	-0//		thermonth of claris	Der
-100	-0//		thornoning de claris	
-100			thornoning de claris	
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-1455			at LAB, pun	
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Drying Eds.	HOCKSSING CONDITIONS	Sigester	at LAB, pun	
Drying Eds.	HOCESSING CONDITIONS	Sigester	at LAB, pun	
Drying Eds.	HOCESSING CONDITIONS	Sigester	at LAB, pun	
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Drying PEEDS. B. NOTE ANY SIGNIFICANT OR UNIQUE P	s, RECE	Digester WING STREAM	THE THE WITHASTATE	PS &
Dry ing Reds B. NOTE ANY SIGNIFICANT OR UNIQUE P A. NAME OF STREAM ***********************************	3, RECE RIVERE T NATURAL	Sigester Sigester Augustes	THE CLASSIAN CONTRACTATE CONTRACTATE CONTRACTATE	PS &
Drying B. NOTE ANY SIGNIFICANT OR UNIQUE P A. NAME OF STREAM PORKERS D. STREAM FLORIS D. CURRENTEN B. CURRENT	T WATURAL PERFORMANCE AND PL	VING STREAM	THE CLASSIAN CONTRACTATE CONTRACTATE CONTRACTATE	PS &
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Drying Eds B. NOTE ANY SIGNIFICANT OR UNIQUE P A. NAME OF STREAM NOCKEASE G. STREAM FLOW IS EMPERENHAL TINTERMITES B. CURRENT (Mid) LANGE LANGE	T WATUPAL PERFORMANCE AND PL 15. FEAR DRY WEATHER	PEGULATED ANT LOADING INFORMAT PLOADING INFORMAT PLOADING INFORMAT PLOADING INFORMAT PLOADING INFORMAT	THE INTERSTATE INTRASTATE COASTAL	PS C
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B. NOTE ANY SIGNIFICANT OR UNIQUE P A. NAME OF STREAM WOOKEGER B. CURRENT B. CURRENT A. ANGUAL AVGRADE DAILY FLOW RATE (Mail) LANK AVERAGE BOD OF PARSECRASE JOAN AVERAGE SUSPENDED SELIPS OF RAW I	T WNATURAL PERFORMANCE AND PL 15. FEAR DRY WEATHER 20°C1 FORM 5. ANNUAL AVENA	PEGULATED ANT LOADING INFORMAT FLOR FATE (FLU) ANT REATHER S. AVERAGE SCITCE S. AVERAGE S. AVERAGE SCITCE S. AVERAGE SCI	PHEAT THE WITHASTATE CASTAL INTRASTATE CASTAL INTRASTATE CONTINUES FLORI HATE (MIN)	PS &
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15. 51 AIHL (2 AT HE) 11	31475				
A. WILLIS CUT AND V	FELTATI	VE CHOWSE IN PORCE LEMINAS	ED+ N. HAMES AND DIT	LS MAINTAINED (FOREIGN BIE-)?	
T. VCS	10		P YC	ON	
END IN GOOD HELL	Arterte G	POLLUTED HATER" SIGHT PHE	SENT U. FREQUENCY DE	HASPLETION BY OPERATOR	
	DOMESTS	YES AO	the second control of		
E. BATER DEPTH (NY	17		- N/4		
			OW MEDIUM		
F. ADEQUATE CONTR	0 - 0 - 0	E#1H*	G. SEEPAGE REP	MIED*	
YES	1 40		YE		
and the second s	A 1000	HATEH CONTAMINATION FROM	CONDITT YES, GIVE DECEMBED		
☐ YES	LJ #0	to.		***	
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		99			
PROBLEM T	-	IN YES, NAME OF SPECIES	I CAN SURFACE I	UN-OFF ENTER PONDT	
AC?	NO	N. 104703113	YE	5 NO	
			OUA 25 HAICE?		
I. IS A CONSULTING E	NOMEE	A RETAINED OR AVAILABLE FOR	CONSULTATION ON OPE	HATING AND MAINTENANCE PRODLE	115+
E YES	NO	IF YES IS IT ON: CONTINUIS	NG BASIS OR THUP	ON REQUEST BASIS	
IF CONTINUING I	06515 WI	IAT IS THE FREQUENCY OF VISI			
	DOTHER	PERSONNEL HOUTINELY ATTEN	ID SHORT COURSES, SCH	OOLS OR OTHER TRAINING ACTIVITIE	131
₩ YES □	NO				/
IF YES CITE CO	onse se	ONSOR AND DATE OF LAST COUR			/
		onson map on E or Ensi coor	ISE WITCHOLD		
IF NO. DO YOU'R	NOW OF	ANY COURSES AVAILABLE TO SE	BMF THE AREAS		
	10011001	ANT COUNTED AVAILABLE TO SE	HAE THIS WHEN		
		34			
A. ARE ALL EQUIPM	ENT AND	PARTS OF THE PRESENT PLAN	TATILL IN OPERATION!		
		7+		YES NO (II no, explain)	
B. ARE PROCESSING	UNITE O	PERATING AT DESIGN EFFICIEN	IIV	VES NO (II no. explain)	
er mig rhoccasing	01111301	PERMITING AT DESIGN EFFICIENT	11-1/-	The I wo (II no. explain)	
	9			59	
[편] [설명하다 [다] [다] [다] [다] [다] [다] [다] [다] [다] [다	and the same	FICULTIES WITH THE SEWAGE T	REATMENT PLANT!		
A. STRUCTURAL	AEE	HO (II yes explain)			

- MECHANICAL	1 4.62	W NO (II yes, explain)			
			01		
				A	
		511			
	-				
C. OPERATIONAL	YES	MO (II yes, espisio)			
	14				
			7/1		
MAST IN CHILD CO.	tion of the				
OF THE PLANT!	NO EXPE	ERIENCE TO DATE WHAT IF ANY	CHANGES MOULD YOU RE	COUNTRY TO IMPHOVE OPERATION	
		1+1			
			2	(00)	
			Y'in	*	
MARY INCH	10		4.7		
WFCA-12 (Rev. 4-63)	(1,434 3)				
				100	

JA. DUTS PLANT NAVE STANDBY POWER GENERATOR TOP MAJOR PUBLING FACILITIES! [] YES [2] NO	THE ADEQUATE ALARM SYSTEM FOR PORCH OR LOUISING TAKE
B. ARL CHEOPINATION FACILITIES PROVIDED TO YES HO	IF YES, IS CHECKBATION CONTINUES (LAVES) 100
A PURPOSE OF CHLORINATION	
in the second se	* 1
BOL TYPE OF CHLORIHATOR	***
SC. POINT OF APPLICATION OF CHLORINE	OD. CAN BYPASSED SEWASE BE CHLORINATED!
AE. AVEHASE PLED HATE OF CHLOHIUE (IN/day)	FOR AT END OF WINDTES
MINET IN	
B. AHE FACILITIES PHONICED FOR COMPLETE BYPASS OF HAW SE	NAGET NU G BELOW, ANSWER H IN EITHER CASE.
TA. FREQUENCY (HIMES HOMININ) 18. AVERAGE DUNAT 18. AVERAGE DUNAT 18. AVERAGE DUNAT 18. AVERAGE DUNAT	TON (hours) SE. HEASON FOR BYPASSING
DEVOND HYDRAULIC CAPACITY OF PLANT BY	THE THE THE
MANUAL GATE	SG. AGENCIES NOTIFIED OF BYPASS ACTION
TOA, ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS	TO CITT MATER SUPPLY! (If no, expirin)
TOD, CHECK TYPE OF BACK FLOW PREVENTION DEVICE	
DOUBLE CHECK VALVE PRESSURE OPERATED	PHYSICAL DISCONNECT OTHER(specify)
NONE	
FISHING - I RRIGATION - REC.	SWIMMING .
13. HAVE THERE HEEN ANY ODOR COMPLAINTS BEYOND THE PLA	ENT PROPERTY* (II yes, explain)
14. OUSERVED APPEARANCE AND CONDITION OF EFFLUENT, HE	CEIVING STREAM, OR DRAINAGE WAY
	19 A
FWPCA-12 (Rev. 4-63) (Page 2)	

E. LABORATORY CONTROL

Enter tout cuties epposite appropriate items. If any of the below tests are used to monitor industrial wastes place an "X" in soldition to the test code.

CODES 1 - 7 or more per week

3 - 1, 2, or 3 per week 5 - 2 or 3 per month

7 - Quarterly

9 - Annually

2 - 4, 5 or 6 per week

FWPCA=17 (Rev. 4-21) (Page 3)

4 - as required

4 - 05 0	equired	6 -	1 per month	8 - Sc	mi-Annually		
	PRIMARY	MIXED		SLU	DGE		
HAW	EFFLUENT	LIQUON	FINAL	RAW	SUPER- NATANT	DIGESTOR	MECEIVE
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						101	
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F. (A HOLTARSON	ND MAINT	ENANCE COST	FOR PLANT			
ALARIES/WAG	ES ELECTA	ICITY	CHENICALS	MAINTENANC	E OTHER	TEMS 1	TOTAL
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	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5	PRIMARY LIQUOR 5	F. OPERATION AND MAINTENANCE COST SALARIES/WAGES ELECTRICITY CHEMICALS F. OPERATION AND MAINTENANCE COST SALARIES/WAGES ELECTRICITY CHEMICALS F. OPERATION TO THE TITLE	HAN PHIMARY LIQUOR FINAL RAN 5 2 2 2 2 2 2 2 2 2 2 2 2 2 4 2 2 5 5 F. OPERATION AND MAINTENANCE COST FOR PLANT SALARIES/WAGES ELECTRICITY CHEMICALS MAINTENANCE ALARIES/WAGES ELECTRICITY CHEMICALS MAINTENANCE FIED BY TITLE FROM THE COST FOR PLANT FIED BY TITLE FIED BY TITLE	HAN PRIMARY HIXED FINAL RAN SUPERMANT SUPERMANT PRIMARY LIQUOR FINAL RAN SUPERMANT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PRIMARY PRIMARY LIQUOR FINAL RAY SUPER DIGESTOR RAY ANTARY DIGESTO

5 Air to LDATE	et. fin	COPPLYS MAIR	STAINS DE			will have been	711	YES	NO	,	
		Comment to line	inclinicals	T AER !	NO	TO WHOM	L-1	162	110		44.0
FREGULACY SCAT	HEH	FLOW	SLUDGE	CHEMICALS	NGESTER	GRIT 37.	ELEC. USED	COST	ALI) USED	MAIN- TENANCE	OTHER
DAILY	/	STRATED	_	_	-						
WECKLY .		WHING.						-			
	-	_								-	
HONTIELY	_										
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IF MAINTAINED	CHE (OT AT ALL CK FORM OF OG BOOK R LACORATE	AECORD S AECORD S AEC	AR SHEET	SEPA	RATE BY OP	ERATION LIBRATED	PERIODICA	OL CHAR	YS 🗀 GRA	PHS
e ves] NO (11 no.		THE CONTRO	A REGULA	20 / 01/ 1/115	STE AND	*	LANT	ta	
B. INDUSTRIAL WA	STES	DISCHARGE	о то мини	CIPAL SYSTE	м /			Racess/		HARGING TO	3437EV
B. POPULATION E										TRIAL MAST	L5 (pr)
D. VOLUME OF INC	USTA	HAL HASTE	t (made	W.K.		E. COMPONI	TION AND	CHARACTER	UNTIES OF	INDUSTRIAL	******
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G. HAVE INDUSTRI	AL E	FFLUENT P	ADOLEHS (IEEN SOLVEI	JK	AEP [NO (II Y		-		77776
					D*	□YE6 □	NO (II Y	os, haw?j		13*	20776
M. HETHOD OH HE	LTHO:	DE USED TO E BY CITY BASED ON B	ASSESS INT	DUSTRIAL WA	STE THEA	TMENT COST	NO (11 y	cs, haw?) Irepriate box	SE BASED	ON FLOW S (describe)	
A. METHOD OA HE NO CHAR COMMENT ON H D. IS INDUSTRIAL D. NHO PROVIDED	HARGINGED IN COMMEN	DE USED TO E BY CITY BASED ON B HARGE IS C	ASSESS INTO	PERTY TAX (lised charge CCT AND ENI	STE THEA	TWENT COST EA USE ASSE RGE BASED (sele, etc.) N-K-	NO (11 y	cs, haw?) Irepriate box	SE BASED		
COMMENT ON P	HARGE CON CONTRACT CON CONTRACT CON CONTRACT CON CONTRACT	CONDINANT AL WISTHUC	ASSESS INTO	CT AND END	STE THEA	TWENT COST EA USE ASSE RGE BASED (Folio, etc.) VES FLANT!	NO (11 y	CHART	SE BASED R METHOD		
D. IS INCUSTRIAL RHO PROVIDED PR 1. IS A MANUAL OF	HARGINGED HOW C	E DY CITY BASED ON B HARGE IS C C DEDINANT AL HISTRUC OUS & OF CITY NO DURS PER O	ASSESS INTO PROPORT OD DELECTED TION IN THE PLOWER ISTRUCTION SEK SEVO	CT AND END	STE THEA	TWENT COST EA USE ASSE RGE BASED (Interpolation of the cost) V-K- VES FLANT!	NO (II Y (EAREN A)() ESSMENT ON SS	PAGVIDES	SE BASED B METHOD:	s (describe)	
COMMENT ON P	ETHORES CONTRACTOR CON	CONTRACTOR OF THE PROPERTY OF	ASSESS INTO	CT AND END TED TO LAB	OF THE	THENT COST EN USE ASSE RGE BASED (FIG. etc.) VES FLANT! FYES. RHO (STAT AGRE ASD ()	NO (II Y TENERA AND ESSMENT ON SS NO AND TENAN AND TENAN	PAGVIDES	SE BASED B METHOD: 1179 1179 1179 1179 1179 1179	s (describe)	
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D. IS INDUSTRIAL D. NO PROVIDED PR 1. IS A MANUAL OF TO YES 2. SETTUATE OF ME	HARGED HARGED HOW CO	CONTRACTOR OF THE PROPERTY OF	ASSESS INTO	CT AND END TED TO LAB	STETHEA NATE CHA	THENT COST EN USE ASSE RGE BASED (FIG. etc.) VES FLANT! FYES. RHO (STRT) AGRIK AND NO MOST RECORT (PS TOTAL CENT:	NO (II Y (ENCEN A)) CONTRACTE AND E' - P P - AINTENAN TOUR REPORT	PAGVIDES ALTE OF NES	OF BASED	RANGE IN	42 EA S
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